

North Korea (DPRK) Grains Production

GMA IPAD | Friday, September 10, 2021

2021 Roundtable On DPRK Agriculture

September 10, 2021



WHAT

PROPOSED
ESTIMATES/FORECASTS



WHY

THE RATIONALE

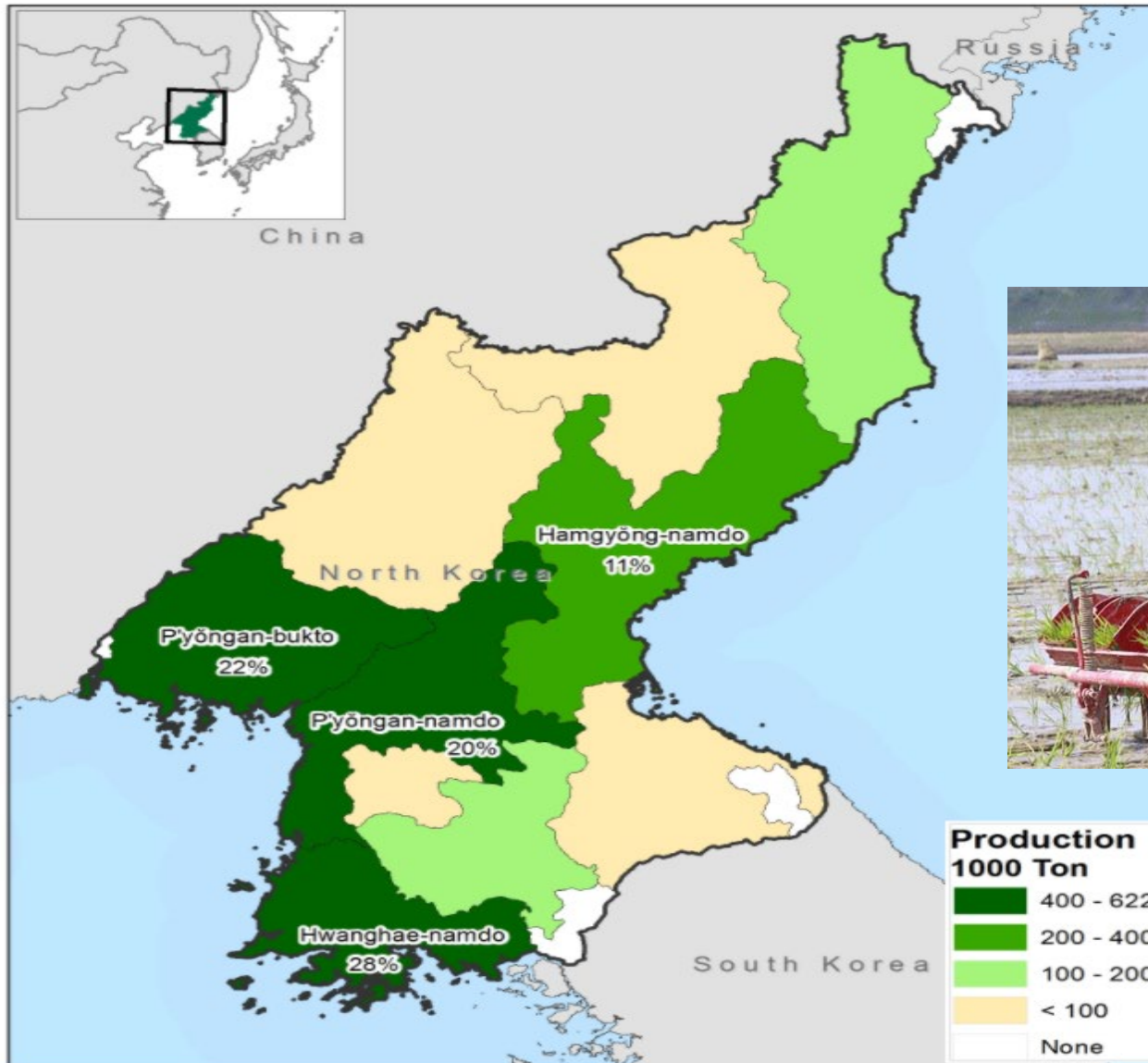
Dath K. Mita, PhD
USDA FAS GMA IPAD

International Production Assessment Division



North Korea Rice Production Distribution

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Picture by FAO North Korea

Source: FAO and WFP. 2019.
Average Crop Production of 2017-2018

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North Korea Crop Calendar

North Korea – Crop Calendar



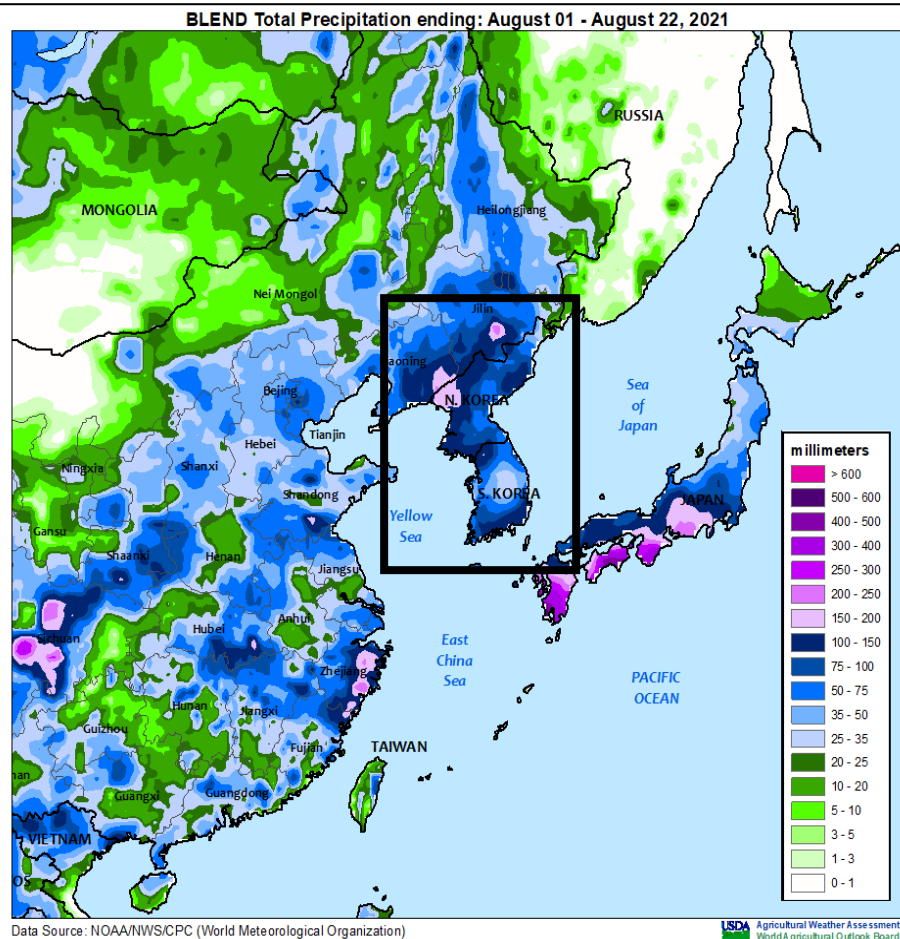
Source: FAO/GIEWS

The rainy season normally starts in April and about 80 percent of the annual precipitation occurs between July and September. Main season crops include rice and corn, accounting for almost 90 percent of the total main season crop output, plus small quantities of soybeans, potatoes, millet and sorghum.

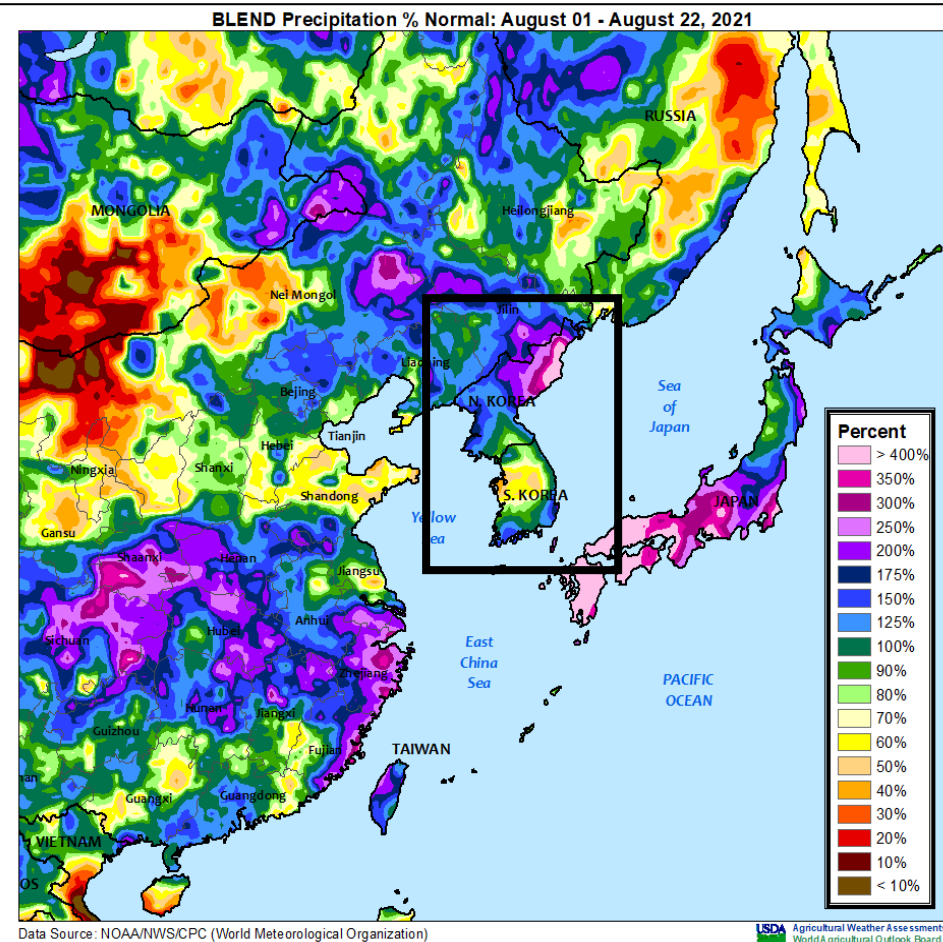
East Asia Total Precipitation, July-August 2021:

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August Total Precipitation



August Percent Normal Precipitation



August better rainfall across East Asia region compared to July

Agricultural Meteorologist, WAOB/JAWF



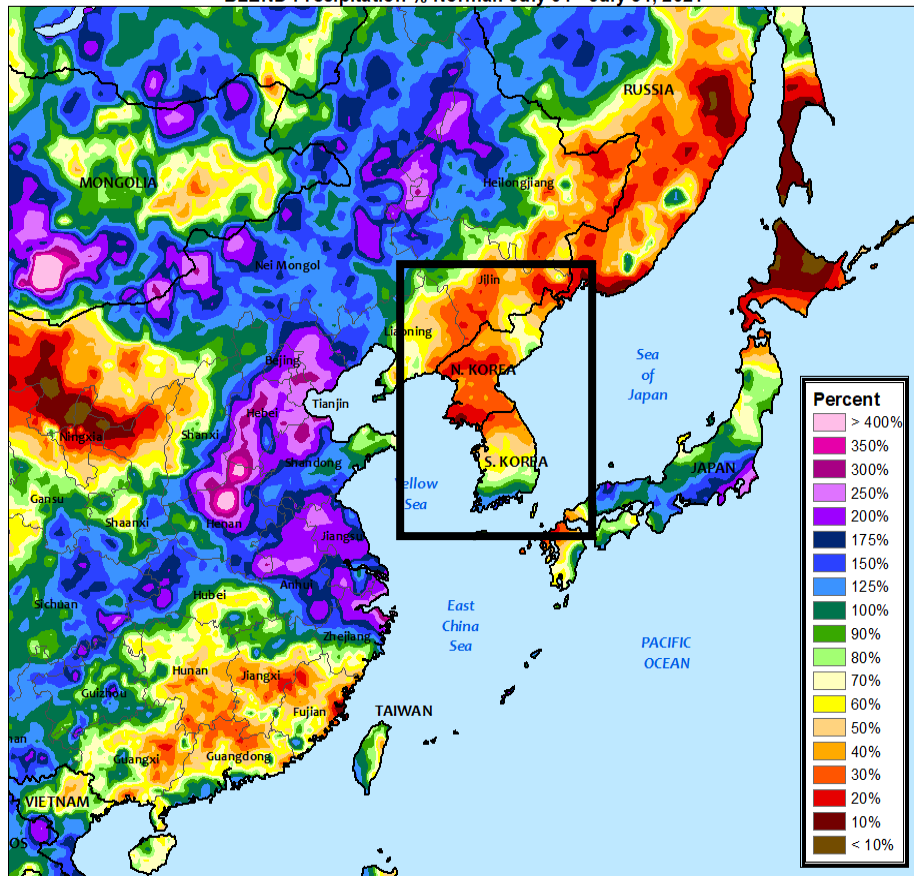
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East Asia Precipitation Percent Normal, July-August 2021:

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July: Precent Normal Precipitation

BLEND Precipitation % Normal: July 01 - July 31, 2021

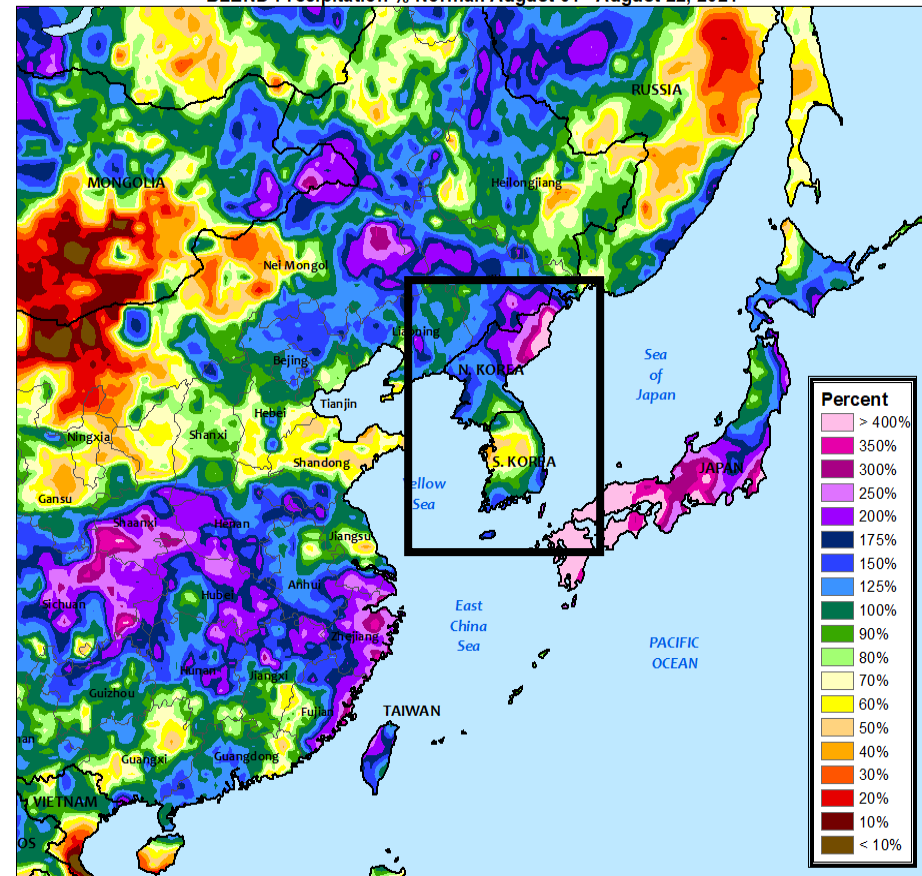


Data Source: NOAA/NWS/CPC (World Meteorological Organization)

USDA Agricultural Weather Assessments
World Agricultural Outlook Board

August: Precent Normal Precipitation

BLEND Precipitation % Normal: August 01 - August 22, 2021



Data Source: NOAA/NWS/CPC (World Meteorological Organization)

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World Agricultural Outlook Board

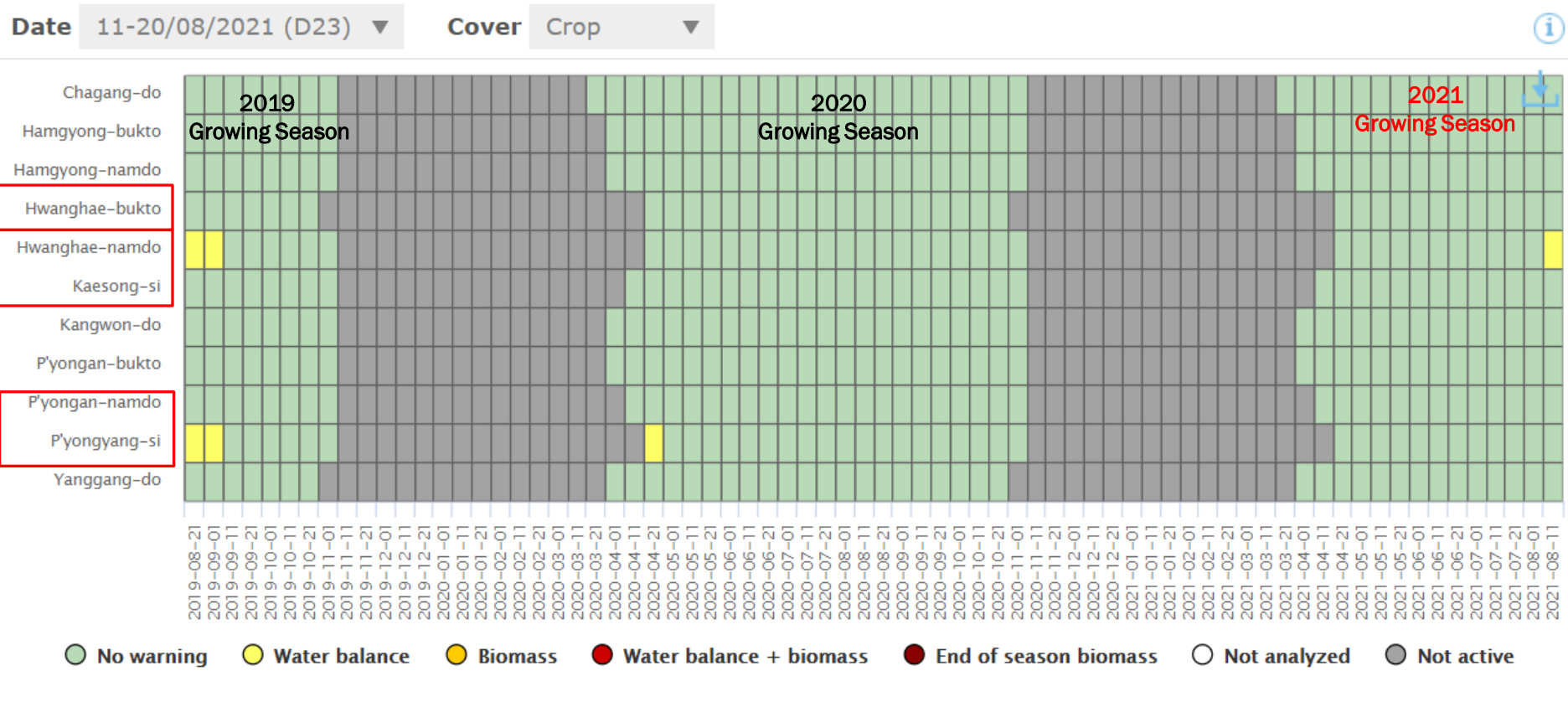
August better rainfall across East Asia region compared to July

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North Korea Warnings Time Series: Seasons 2019, 2020 and 2021



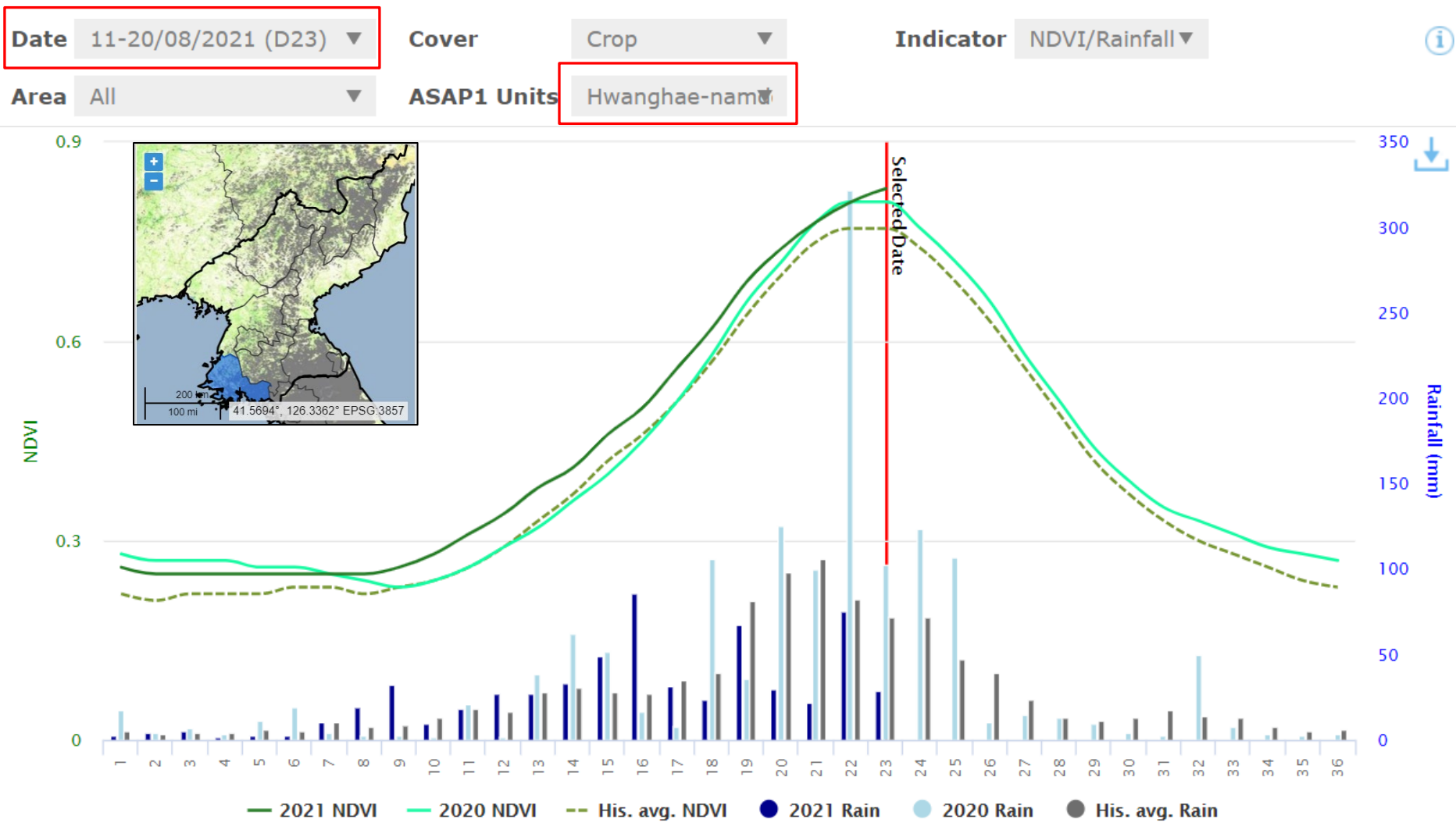
Warnings time series

Water balance (*dryness*) warning alerts issued for 1 out of 5 provinces

The 5 regions combined accounts for 80% of Total Cereal Production

Hwanghae-namdo, North Korea Crop Performance based on NDVI Time Series

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➤ Despite dryness warning issued, the crop performance does not seem to be affected, still better than last year



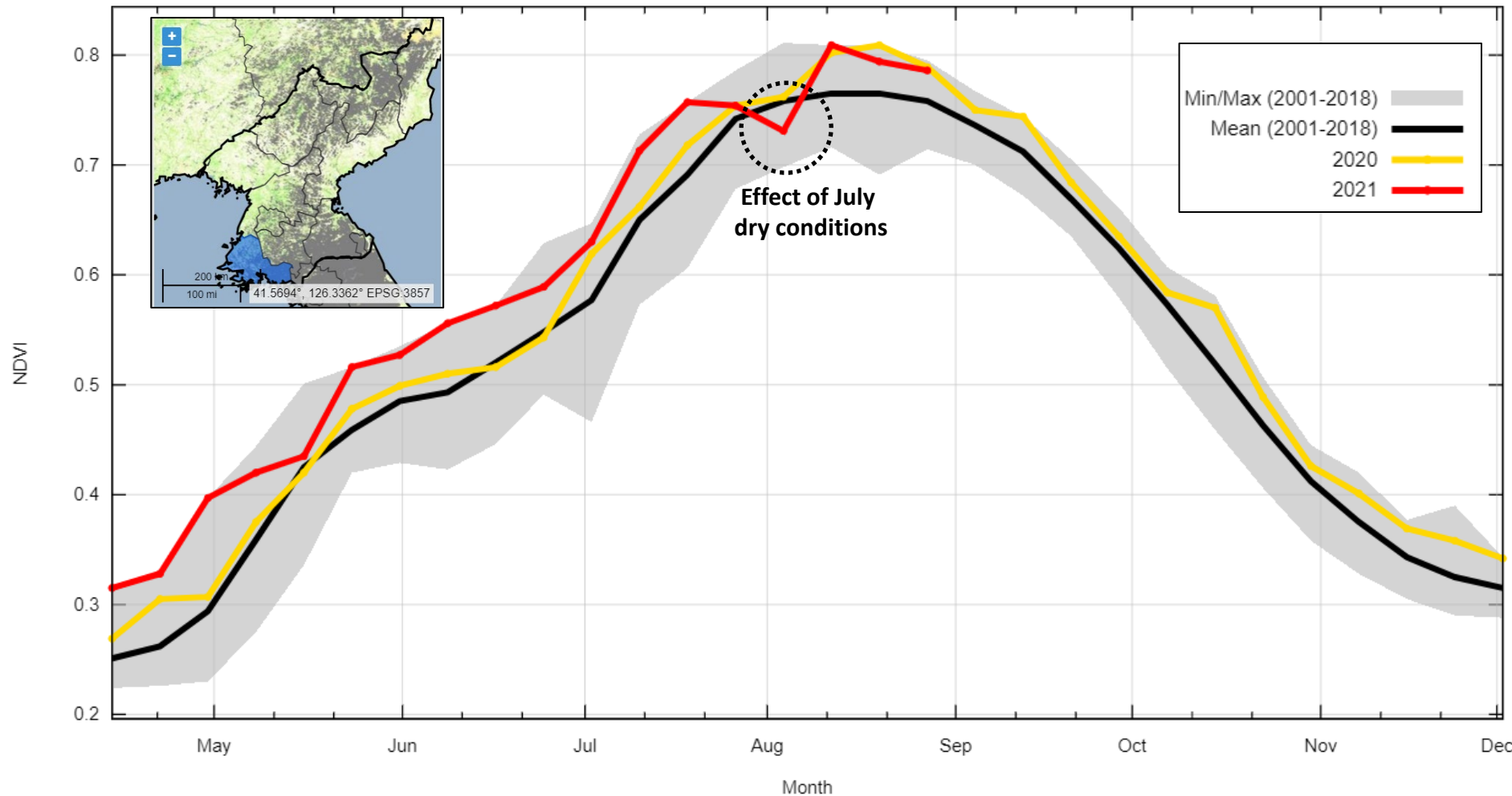
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Credit: <https://mars.jrc.ec.europa.eu/asap/country.php?cntry=67>

South Hwanghae Province, North Korea, Crop Performance based on NDVI Time Series

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Plot 1. Seasonal Time Series for Terra MODIS 8-day NDVI / South Hwanghae, North Korea

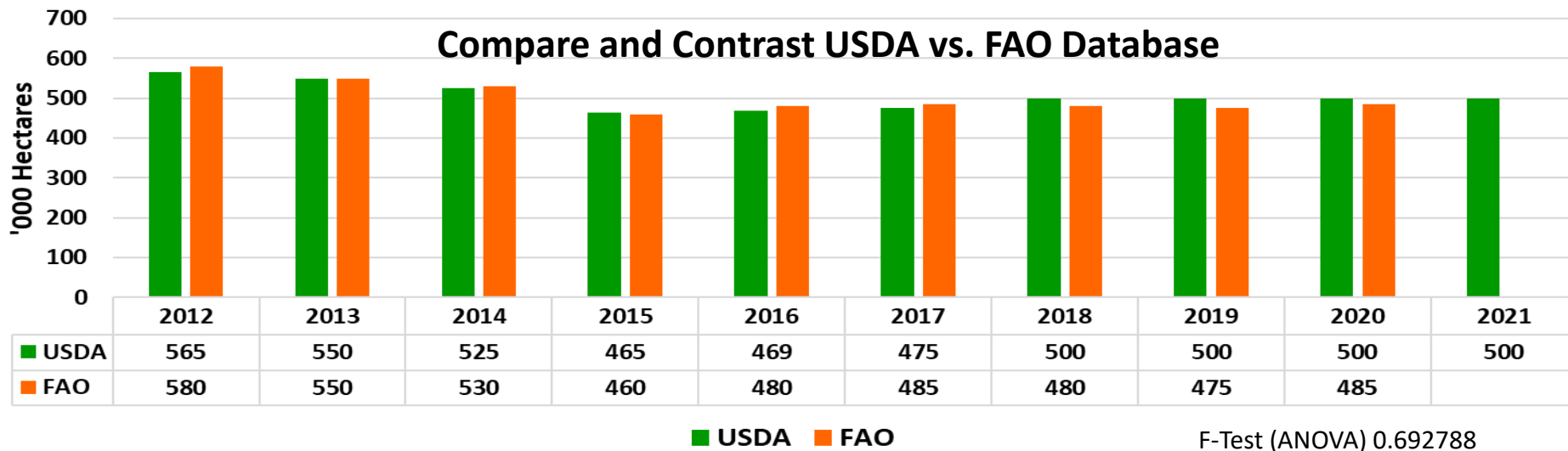


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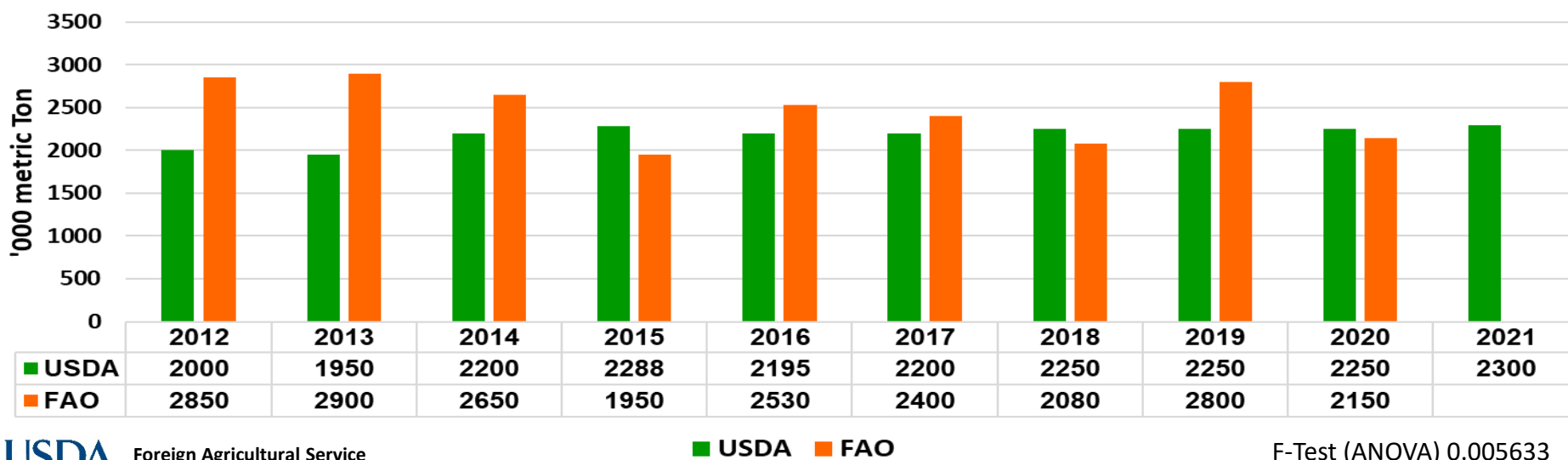
North Korea Rice Area-Production PSD vs. FAO Time Series

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North Korea Rice Harvested Area: USDA PSD vs. FAO Database



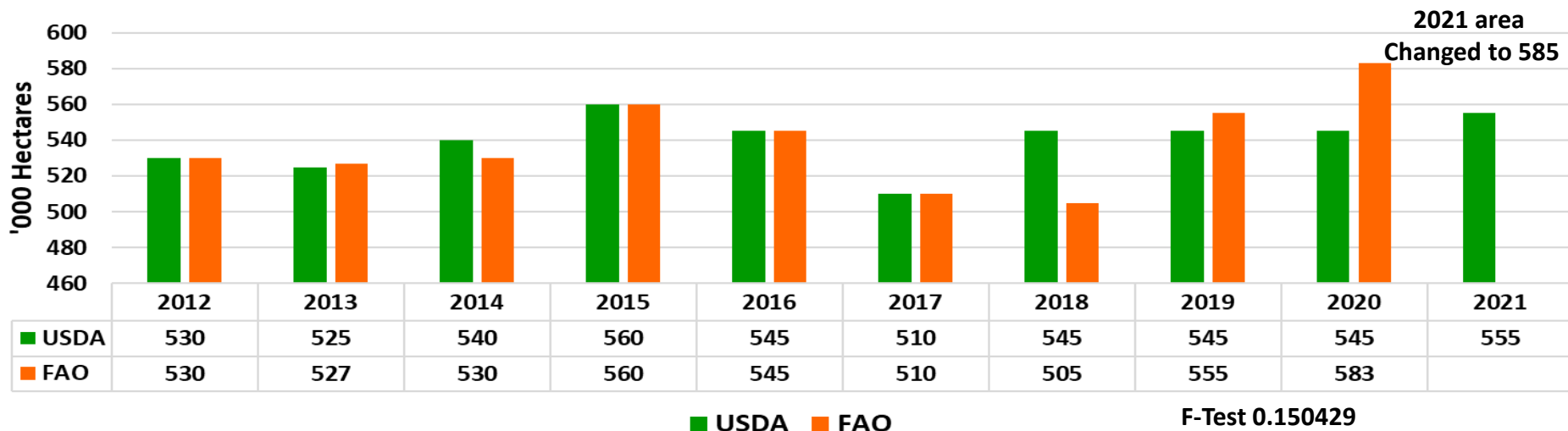
North Korea Rice Production: USDA PSD vs. FAO Database



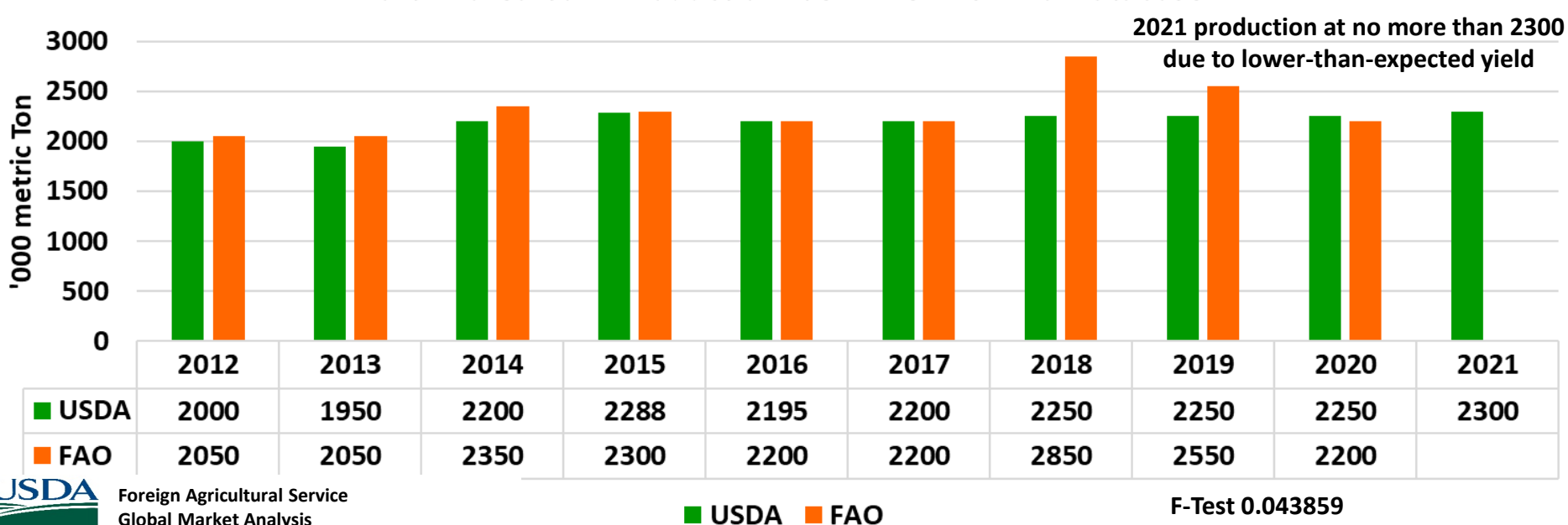
North Korea Corn Area-Production PSD vs. FAO Time Series

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North Korea Corn Harvested Area: USDA PSD vs. FAO Database



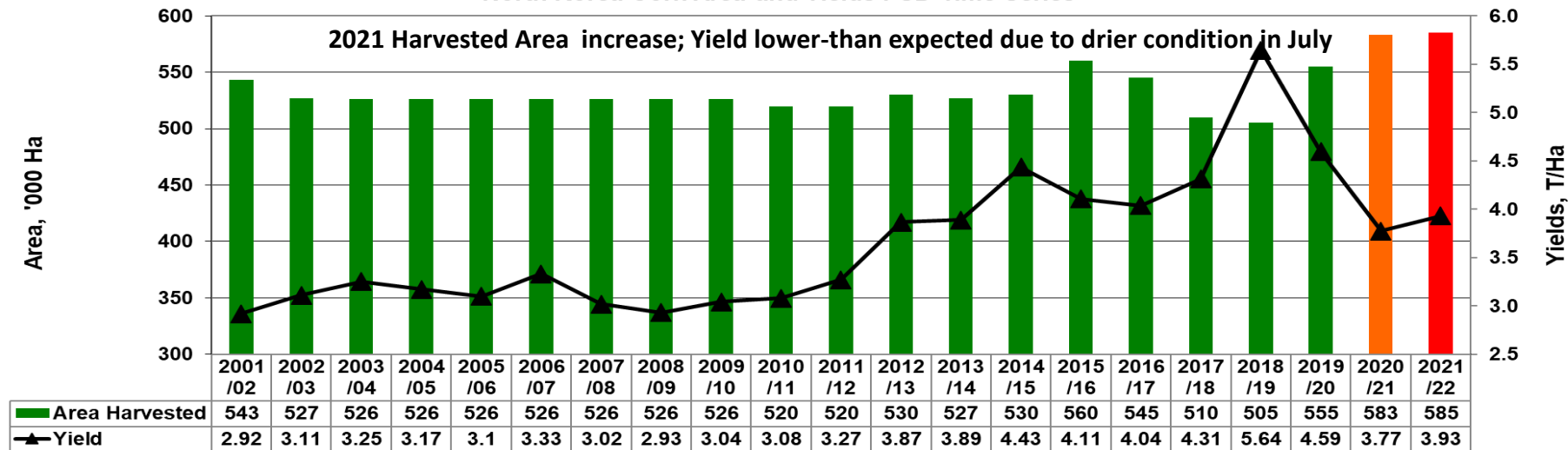
North Korea Corn Production: USDA PSD vs. FAO Database



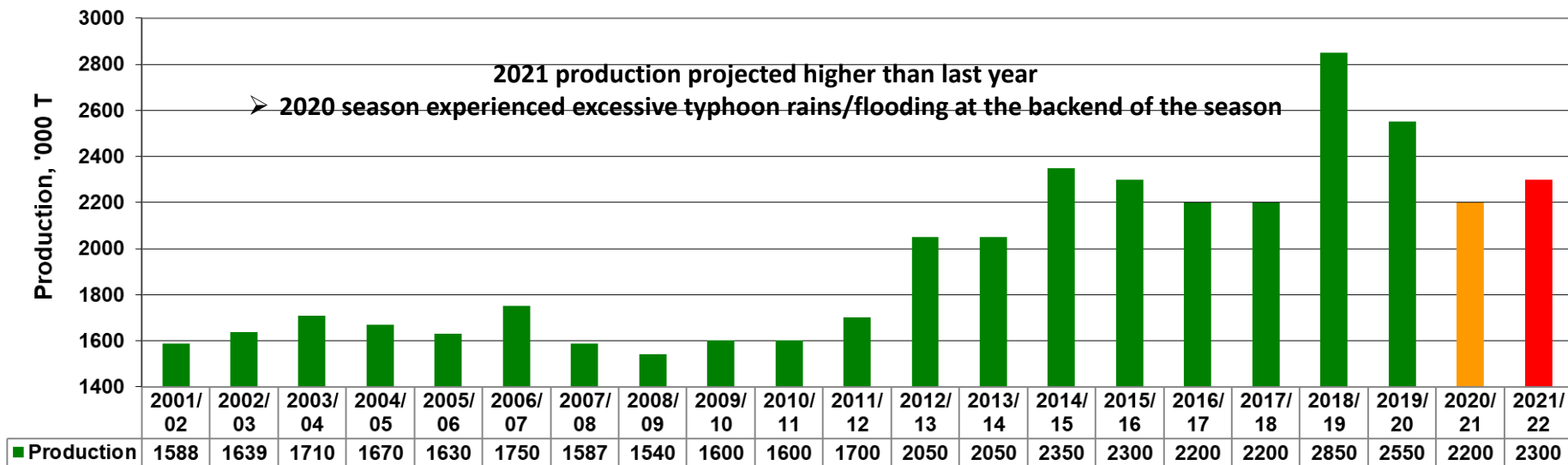
Updated North Korea Corn Harvested Area and Production Time Series

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North Korea Corn Area and Yields PSD Time Series



North Korea Corn Production PSD Time Series



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Current USDA Rice Area, Yield, and Production Time Series

Updated North Korea Rice Area and Production Time Series

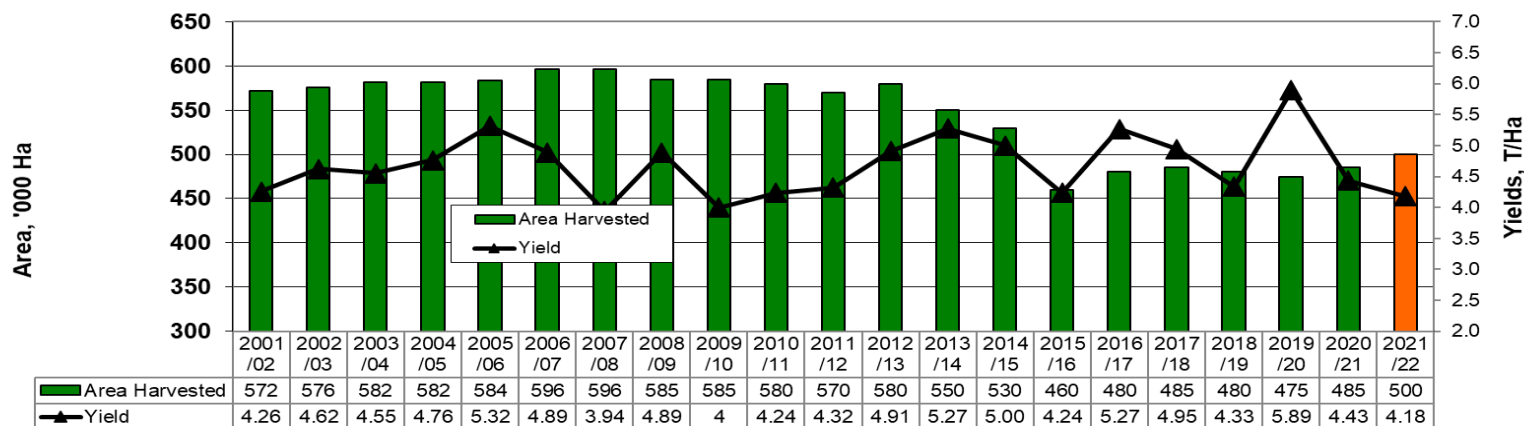
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The North Korea rice harvested area and production time series has been updated primarily based on consultations and most recent database (2020) provided by FAO Representative based in North Korea.

In turn the 2021 rice harvested area has been increased based on the most recent year-to-year trend (short-term 2019-2020)

The 2021 rice production has not changed or revised also based on the most recent (short-term 2019-2020) year-to-year trend. It is slightly lower than 2020 considering the drier-than normal or expected conditions in July when most of the crop was in advanced vegetative and reproductive stages.

North Korea Rice: Area - Yield PSD Time Series



North Korea Rice Production PSD Time Series

